DEVON McDONALD

Software Engineer

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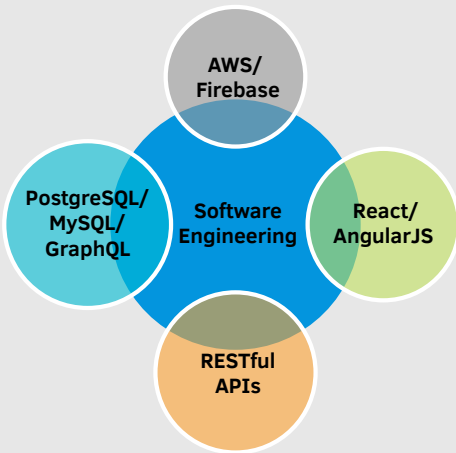- in /in/devon-mcdonald-2020
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Technical Skills

Overview

Programming

$0\ LOC \longrightarrow 5000\ LOC$

React • AngularJS • Node.js • Python

React Native • C++ • SQL

Java • Spring Boot • C

Education

BS., Computer Engineering (GPA: 3.5)
Minor: Computer Science
Louisiana State University
2017 - 2020 | Baton Rouge, LA

Experience

Aug 2020 - Present

Software Engineer DELL TECHNOLOGIES

- Development of an internal application to manage performance team servers and help drive performance testing of multiple Dell applications
- Projects: Remote desktop server manager application, CICD performance pipelines, Selenium scripting and automation
  Tools: React, Node.js, Python, Flask, REST, IIS, PCF, Powershell scripting, Selenium, NeoLoad, GitLab CI / CD, Agile
- Development of a full stack application utilizing React and Flask to interact with Dell's servers from a web app, providing functionality such as changing DNS, running commands, editing the hostfile, etc.
- Create and maintain CI / CD pipelines that automate performance testing when a new commit is pushed to Dell applications
- Produce Selenium python scripts that automate client side testing of Dell software

Jan 2019 - May 2020

Full Stack Developer LSU ENGINEERING DEPARTMENT

- Together with the help of 3 other students developed an application to facilitate peer to peer machine learning model training and executions
- Tools: React, Node.js, CSS, Python, Flask, REST, Ethereum, Solidity, Linux, Agile
- Worked mostly on the front end utilizing material UI and CSS to make an intuitive and good looking interface to attract users
- Developed a command line interface that had all of the functionality of our GUI as an alternative for users
- Spent time making our backend Ethereum smart contract more efficient and helped with debugging when issues arose

May 2020 - Aug 2020

Scientific and Engineering Applications Intern CHEVRON CORPORATION

- Worked on the DOF (Digital Oilfield) team to implement the particle swarm optimization algorithm into their IFM software.
- Delivered several lectures for CIS*3530 when professor was away at a conference
- Did a PoC of the particle swarm optimization algorithm in C using the .NET framework to change the GAP model variables to calibrate the risers of the Agbami oilfield
- Was introduced into Agile development in which I attended daily stand ups, sprint planning meetings, and communicated with scrum master about sprint's tasks and goals
- Participated in Chevron summer Powerthon in which our group of six engineers developed an ITC onboarding app that streamlined the onboarding process through the low-code Microsoft PowerApps platform.

Aug 2018 - May 2019

Computer Science/Calculus/Physics Tutor GENESIS TUTORING

- Walked students through any issues they were having with their respective courses including physics, calculus, and computer science with C++
- Helped with topics such as derivation rules, implicit differentiation, L'Hospital's rule, Integration techniques, relative minima and maxima to analyze function traits, fundamental programming skills, classes, methods, file streaming, data type parsing, etc.
- Often assisted in trouble shooting C++ and Java programming projects that students were stuck on